

MITYANA DISTRICT PRIMARY SCHOOLS
HEAD TEACHERS ASSOCIATION
PRIMARY LEAVING MOCK EXAMINATIONS 2024
MATHEMATICS

Time Allowed: 2 Hours 30 Minutes

Random No.	Personal No.

Candidate's Name: _____

Candidate's Signature: _____

School: _____

READ THE FOLLOWING INSTRUCTIONS
CAREFULLY:

1. This paper has two sections: A and B.
2. Section A has 20 questions (40 Marks).
3. Section B has 12 questions (60 Marks).
4. Attempt all questions in both sections. All answers to both sections A and B must be written in the spaces provided.
5. All answers must be written in blue or black ball point pens or *ink*. Only diagrams and graph work must be done in *pencil*.
6. Unnecessary *alteration* of work will lead to loss of marks.
7. Any *handwriting* that cannot be easily read may lead to loss of marks.
8. Do not fill anything in the boxes indicated:

"FOR EXAMINER'S USE ONLY"

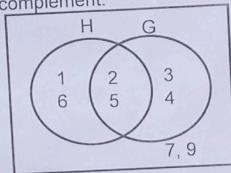
For Examiner's Use Only;

Qn No.	MARKS	INITIALS
1 - 5		
6 - 10		
11 - 15		
16 - 20		
21 - 22		
23 - 24		
25 - 26		
27 - 28		
29 - 30		
31 - 32		
Total		

Please turn over

16 Express 78.32 in standard form. 17 Solve for w: $3(w + 2) = 12$

- 18 In the venn diagram below, find the number of elements of set G complement.



- 19 A bicycle wheel has a radius of 14dm. What distance can it cover in one revolution?

- 20 It takes ninety minutes for a tractor to travel a distance of 120km. Find its speed.

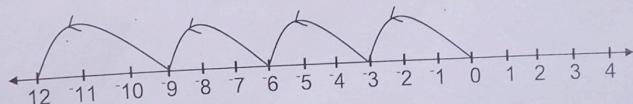


- 11 If set $G = \{u, w, q\}$. List all the subsets of set G .
- 12 Babirye bought $\frac{21}{2}$ litres of cooking oil at sh. 3,000 for every half litre. How much did she pay?

13 Using a ruler, a pencil and a protractor, draw an angle of 105° .

14 The mean of 4, 5, 6 and y is 6. Find the value of y .

15 Write the mathematical multiplicative sentence for the number line drawn below.



SECTION A: 40 MARKS

Attempt all questions in this section.

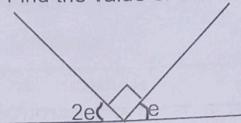
Questions 1 to 20 carry two marks each.

1 Work out: $9 \begin{array}{r} \\ - 4 \\ \hline \end{array} 3$

2 Write 49,019 in words.

3 If $q = 4$, $u = 2$, find the value of $3qu$.

4 Find the value of e in degrees.



5 Convert 250gm to kilograms.

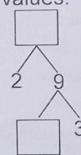
6 The probability of electing a boy as a class monitor is $\frac{3}{7}$.

If there are 32 girls, how many pupils are in the class?

7 What percentage of the figure below is unshaded?



8 Use the factor tree to fill in the missing values.



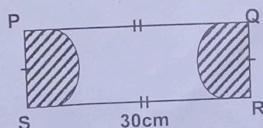
9 Express 00 45 hours to 12 hour clock time.

10 Use a dial to work out:
 $2 - 3 = y \pmod{5}$

- 25 The three alarm clocks sound at intervals of 9 minutes, 12 minutes and 15 minutes respectively. When will they sound at the same time if they first sounded together at 9:30a.m? (04 marks)

- 26 Ssebunya went to the market and bought the following items:
3 heaps of oranges at sh 2,000 per heap.
12 mangoes at sh. 1,200 for every 3 mangoes.
400gm of rice at sh. 4,000 per kg.
2 trays of eggs at sh. 18,000.
(a) Find his total expenditure. (b) If he was given a discount of
(04 marks) sh. 1400, how much did he pay?
(02 marks)

- 27 The figure below shows a rectangle with two semi-circles inside it. Study the figure and answer the questions that follow.



23. There were three friends namely: Ddemba, Ddumba and Ddembe in Busunju Sub - county who decided to start a business and managed to raise sh. 6,600,000. After an agreement, Ddumba managed to raise half as much as the money raised by Ddemba while Ddembe managed to raise thrice of the money raised by Ddumba.

(a) How much did Ddumba contribute? (03 marks)

(b) Find Ddembe's contribution. (02 marks)

24. Kato took **3 hours** for the whole journey. For the first **half an hour**, his average speed was **100km/h** and for the remaining time, his average speed was **52km/h**.

(a) Calculate the total distance he covered. (04 marks)

(b) Work out his **average speed** for the **whole** journey. (02 marks)



SECTION B: 60 MARKS

Attempt all questions in this section.

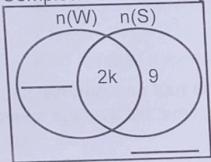
Marks for each part of the question are indicated in the brackets

- a) Work out:
$$\begin{array}{r} 3 \ 3 \ 4 \\ + 1 \ 2 \ 3 \\ \hline \end{array}$$
 five (b) If $2w_{\text{four}} = 1011_{\text{two}}$
Find the value of w . (03 marks)

(02 marks)

- 12 At a birthday party, 7 people took water (W) only, some took soda (S), $2k$ took both drinks and $k+3$ took other drinks. (02 marks)

a) Complete the venn diagram below.

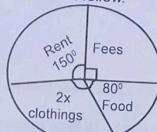


- (b) If 29 people took soda, find the value of k . (02 marks)



- 31a) Work out: $5151 - 9,183 + 8062$ (02 marks)
- (b) The reading of a water metre at the beginning of the month was 0049502 units and at the end of the month was 0049521 units. If 1 unit costs sh. 150, how much was paid at the end of the month? (03 marks)

32. The circle graph below shows Musoke's monthly expenditure. Study and use it to answer the questions that follow.



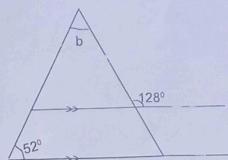
- (a) Find the value of x . (02 marks) (b) If Musoke spent sh. 49,000 more on rent than food, calculate his monthly expenditure. (03 marks)



of the unshaded
(02 marks)

- 29a) The exterior angle of a regular octagon is $(3x + 18)$. Find the value of x in degrees. (03 marks)

- (b) Using the triangle below, find the angle marked b , in degrees. (02 marks)



only, construct a
(04 marks)

- 30 Asimwe's family received $\frac{1}{2}$ of the face masks on Friday, $\frac{1}{4}$ of the remainder on Saturday and the remaining 15 face masks on Sunday.

- (a) Find the fraction of the face masks the family received on Sunday. (03 marks)
- (b) Find the total number of face masks the family received. (02 marks)

(01 mark)



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- (a) Find the **width** of a rectangle if the **area** of the shaded part is 154cm^2 . (03 marks)
- (b) Work out the **area** of the **unshaded** part. (02 marks)

29

- 28a) With the help of a ruler, a pencil and a pair of compasses only, **construct** a rectangle PQRS in which $PQ = 7\text{cm}$ and $QR = 4\text{cm}$. (04 marks)

30

(a)

- (b) Measure line QS. (01 mark)

